

#8



PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/936,205

DATE: 02/08/2002  
TIME: 11:26:41

Input Set : A:\37945-0024.txt  
Output Set: N:\CRF3\02082002\I936205.raw

ENTERED

4 <110> APPLICANT: SMITH, Richard Anthony Godwin  
5 PRATT, Julian Roy  
6 SACKS, Steven Howard  
8 <120> TITLE OF INVENTION: ORGAN TRANSPLANT SOLUTIONS CONTAINING CONJUGATES OF  
9 SOLUBLE PEPTIDIC COMPOUNDS WITH MEMBRANE-BINDING  
11 <130> FILE REFERENCE: 37945-0024  
13 <140> CURRENT APPLICATION NUMBER: US 09/936,205  
C--> 14 <141> CURRENT FILING DATE: 2001-12-07  
16 <150> PRIOR APPLICATION NUMBER: PCT/GB00/00834  
17 <151> PRIOR FILING DATE: 2000-03-08  
19 <150> PRIOR APPLICATION NUMBER: GB 9905503.0  
20 <151> PRIOR FILING DATE: 1999-03-10  
22 <160> NUMBER OF SEQ ID NOS: 11  
24 <170> SOFTWARE: PatentIn Ver. 2.1  
26 <210> SEQ ID NO: 1  
27 <211> LENGTH: 215  
28 <212> TYPE: PRT  
29 <213> ORGANISM: Artificial Sequence  
31 <220> FEATURE:  
32 <223> OTHER INFORMATION: Linear, 2 polypeptide chains disulphide linked  
34 <220> FEATURE:  
35 <221> NAME/KEY: DISULFID  
36 <222> LOCATION: (198)..(199)  
38 <220> FEATURE:  
39 <223> OTHER INFORMATION: 2nd polypeptide chain (199-215) runs C to N  
40 terminus  
42 <220> FEATURE:  
43 <223> OTHER INFORMATION: An N-myristoyl group is at the N-terminus of the  
44 second polypeptide chain  
46 <220> FEATURE:  
47 <223> OTHER INFORMATION: A CONH2 group is at the C terminus of the second  
48 polypeptide chain  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
52 peptide reagent  
54 <400> SEQUENCE: 1  
55 Met Gln Cys Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn  
56 1 5 10 15  
58 Leu Thr Asp Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu  
59 20 25 30  
61 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys  
62 35 40 45  
64 Asn Ser Val Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys

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65      50      55      60
67 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly
68 65      70      75      80
70 Ile Gln Phe Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg
71      85      90      95
73 Leu Ile Gly Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val
74      100      105      110
76 Ile Trp Asp Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu
77      115      120      125
79 Pro Pro Thr Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn
80      130      135      140
82 Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly
83 145      150      155      160
85 Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
86      165      170      175
88 Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
89      180      185      190
91 Ile Ile Pro Asn Lys Cys Cys Asp Gly Pro Lys Lys Lys Lys Lys Lys
92      195      200      205
94 Ser Pro Ser Lys Ser Ser Gly
95      210      215
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99 <211> LENGTH: 218
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: 2 polypeptide chains disulphide linked
106 <220> FEATURE:
107 <221> NAME/KEY: DISULFID
108 <222> LOCATION: (198)..(199)
110 <220> FEATURE:
111 <223> OTHER INFORMATION: The second polypeptide chain (199-218) runs C to N
112 terminus
114 <220> FEATURE:
115 <223> OTHER INFORMATION: An N-Myristoyl group is at the N terminus of the
116 second polypeptide chain
118 <220> FEATURE:
119 <223> OTHER INFORMATION: A CONH2 group is at the C terminus of the second
120 polypeptide chain
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
124 peptide reagent
126 <400> SEQUENCE: 2
127 Met Gln Cys Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
128 1      5      10      15
130 Leu Thr Asp Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
131      20      25      30
133 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
134      35      40      45
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136 Asn Ser Val Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys  
137       50                       55                       60  
139 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly  
140   65                       70                       75                       80  
142 Ile Gln Phe Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg  
143                       85                       90                       95  
145 Leu Ile Gly Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val  
146                       100                       105                       110  
148 Ile Trp Asp Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu  
149       115                       120                       125  
151 Pro Pro Thr Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn  
152       130                       135                       140  
154 Phe His Tyr Gly Ser Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly  
155 145                       150                       155                       160  
157 Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr  
158                       165                       170                       175  
160 Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys  
161                       180                       185                       190  
163 Ile Ile Pro Asn Lys Cys Cys Ala Asp Leu Arg Ser Ser Leu Gly Pro  
164       195                       200                       205  
166 Lys Lys Lys Lys Lys Lys Ser Pro Ser Gly  
167       210                       215  
170 <210> SEQ ID NO: 3  
171 <211> LENGTH: 20  
172 <212> TYPE: PRT  
173 <213> ORGANISM: Artificial Sequence  
175 <220> FEATURE:  
176 <223> OTHER INFORMATION: An N-myristoyl group is at the N terminus of the  
177       polypeptide chain  
179 <220> FEATURE:  
180 <223> OTHER INFORMATION: A CONH2 group is at the C-terminus of the  
181       polypeptide chain  
183 <220> FEATURE:  
184 <223> OTHER INFORMATION: An S-2-Thiopyridyl group is attached to the  
185       C-terminal cysteine  
187 <220> FEATURE:  
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
189       peptide reagent  
191 <400> SEQUENCE: 3  
192 Gly Ser Pro Ser Lys Lys Lys Lys Lys Pro Gly Leu Ser Ser Arg  
193   1                       5                       10                       15  
195 Leu Asp Ala Cys  
196                       20  
199 <210> SEQ ID NO: 4  
200 <211> LENGTH: 20  
201 <212> TYPE: PRT  
202 <213> ORGANISM: Artificial Sequence  
204 <220> FEATURE:  
205 <223> OTHER INFORMATION: A CONH2 group is at the C terminus

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207 <220> FEATURE:  
208 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
209 peptide  
211 <400> SEQUENCE: 4  
212 Gly Ser Pro Ser Lys Lys Lys Lys Lys Lys Pro Gly Leu Ser Ser Arg  
213 1 5 10 15  
215 Leu Asp Ala Cys  
216 20  
219 <210> SEQ ID NO: 5  
220 <211> LENGTH: 9  
221 <212> TYPE: PRT  
222 <213> ORGANISM: Artificial Sequence  
224 <220> FEATURE:  
225 <223> OTHER INFORMATION: Description of Artificial Sequence: A peptidic  
226 membrane binding element of SEQ ID NO: 4  
228 <400> SEQUENCE: 5  
229 Pro Ser Lys Lys Lys Lys Lys Lys Pro  
230 1 5  
233 <210> SEQ ID NO: 6  
234 <211> LENGTH: 7  
235 <212> TYPE: PRT  
236 <213> ORGANISM: Artificial Sequence  
238 <220> FEATURE:  
239 <223> OTHER INFORMATION: Description of Artificial Sequence: A peptidic  
240 membrane binding element of SEQ ID NO: 4  
242 <400> SEQUENCE: 6  
243 Leu Ser Ser Arg Leu Asp Ala  
244 1 5  
247 <210> SEQ ID NO: 7  
248 <211> LENGTH: 16  
249 <212> TYPE: PRT  
250 <213> ORGANISM: Artificial Sequence  
252 <220> FEATURE:  
253 <223> OTHER INFORMATION: Description of Artificial Sequence: Example of  
254 electrostatic switch sequence  
256 <400> SEQUENCE: 7  
257 Asp Gly Pro Lys Lys Lys Lys Lys Lys Ser Pro Ser Lys Ser Ser Gly  
258 1 5 10 15  
261 <210> SEQ ID NO: 8  
262 <211> LENGTH: 16  
263 <212> TYPE: PRT  
264 <213> ORGANISM: Artificial Sequence  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Example of  
268 electrostatic switch sequence  
270 <400> SEQUENCE: 8  
271 Gly Ser Ser Lys Ser Pro Ser Lys Lys Lys Lys Lys Lys Pro Gly Asp  
272 1 5 10 15  
275 <210> SEQ ID NO: 9

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276 <211> LENGTH: 20  
277 <212> TYPE: PRT  
278 <213> ORGANISM: Artificial Sequence  
280 <220> FEATURE:  
281 <223> OTHER INFORMATION: Description of Artificial Sequence: Example of  
282 electrostatic switch sequence  
284 <400> SEQUENCE: 9  
285 Ser Pro Ser Asn Glu Thr Pro Lys Lys Lys Lys Lys Arg Phe Ser Phe  
286 1 5 10 15  
288 Lys Lys Ser Gly  
289 20  
292 <210> SEQ ID NO: 10  
293 <211> LENGTH: 16  
294 <212> TYPE: PRT  
295 <213> ORGANISM: Artificial Sequence  
297 <220> FEATURE:  
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Example of  
299 electrostatic switch sequence  
301 <400> SEQUENCE: 10  
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303 1 5 10 15  
306 <210> SEQ ID NO: 11  
307 <211> LENGTH: 14  
308 <212> TYPE: PRT  
309 <213> ORGANISM: Artificial Sequence  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Example of  
313 electrostatic switch sequence  
315 <400> SEQUENCE: 11  
316 Ser Lys Asp Gly Lys Lys Lys Lys Lys Ser Lys Thr Lys  
317 1 5 10

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/936,205

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date